

FORM PTO - 1449		ATTORNEY DOCKET NO.: SNS-016
INFORMATION DISCLOSURE STATEMENT		APPLICANTS: Levene et al.
		SERIAL NO.: 10/697,174
		FILING DATE: October 30, 2003
		GROUP: 2628
	C3	Barr, "Global and Local Deformations of Solid Primitives", COMPUTER GRAPHICS, Vol. 18, No. 3, pgs. 21-30 (July, 1984).
	C4	Blinn, "Simulation of Wrinkled Surfaces," COMPUTER GRAPHICS, Volume 12-3, August 1978, pages 286-292.
	C5	Brooks et al., "Project GROPE - Haptic Displays for Scientific Visualization," COMPUTER GRAPHICS, Vol. 24, No. 4, August 1990, pgs. 177-185.
	C6	Decaudin, "Geometric Deformation by Merging a 3D-Object with a Simple Shape," Graphics Interface '96 Proceedings (Toronto, Canada), 6 pgs. (May 21-24, 1996).
	C7	Dworkin et al., "A New Model for Efficient Dynamic," Fourth Eurographics Animation and Simulation Workshop Proceedings Eurographics Technical Report Series, ISSN 1017-4656, September 4-5, 1993, pp. 135-147.
	C8	Elhajj et al., "Supermedia-Enhanced Internet-Based Telerobotics," Proceedings of the IEEE, Vol. 91, No. 3, pp. 396-421 (March 2003).
	C9	Foskey, M. et al., "ArtNova: Touch-Enabled 3D Model Design," IEEE Virtual Reality 2002, pp. 119-126 (March 2002)
	C10	Fuentes et al., "The Virtual Tool Approach to Dextrous Telemaripulation," Proceedings of the 1996 IEEE International Conference on Robotics and Automation (Minneapolis, MN), pp. 1700-1705 (April 1996).
	C11	Galyean, "Sculpting: An Interactive Volumetric Modeling Technique," Computer Graphics (SIGGRAPH '91 Las Vegas), Vol. 25, No. 4, pp. 267-274 (July 1991).
	C12	Gibson, "Beyond Volume Rendering: Visualization, Haptic Exploration, and Physical Modeling of Voxel-Based Objects," 1995 Mitsubishi Electric Research Laboratories, Inc., 1995, 6th Eurographics Workshop on Visualization in Scientific Computing, pp. 1-14.
	C13	Hashimoto et al., "Dynamic Force Simulator for Force Feedback Human-Machine Interaction", IEEE, September 1993, pp. 209-215.
	C14	Hirata et al., "3-Dimensional Interface Device for Virtual Work Space," Proceedings of the 1992 IEEE, July 7-10, 1992, pp. 889-896.
	C15	Hirota et al., "Providing Force Feedback in Virtual Environments", IEEE, September 1995, pp. 22-30.
	C16	Hirota et al., "Development of Surface Display," Proceedings of the Virtual Reality Annual International Symposium (Seattle), pp. 256-262 (September 18-23, 1993).
	C17	Immersion Corporation, "Laparoscopic IMPULSE ENGINEED: A New FORCE FEEDBACK Surgical Simulation Tool", Immersion Corporation, 1995. http://www.immerse.com/wwwpages/lapIEpg.htm
	C18	Immersion Corporation, "The IMPULSE ENGINEED", 1 page, Immersion Corporation, 1996.
	C19	Immersion Corporation, "Virtual Laparoscopic Interface", Immersion Corporation, 1995, 1 pg.
	C20	Ishii et al., "A 3D Interface Device with Force Feedback: A Virtual Work Space for Pick-and-Place Tasks", IEEE, September 1993, pp. 331-335.
	C21	Kelley et al. "MagicMouse: Tactile and Kinesthetic Feedback in the Human-Computer Interface Using an Electromagnetically Actuated Input/Output Device," Department of Electrical Engineering, University of British Columbia, Vancouver, BC, V6T 1Z4, Canada, October 19, 1993, pp. 1-27.
V	C22	Kotoku et al., "A Force Display Algorithm for Virtual Environments," SICE, pp. 347-355, 1992.
JA	C23	Luo et al., "Networked Intelligent Robots Through the Internet: Issues and Opportunities," Proceedings of the IEEE, Vol. 91, No. 3, pp. 371-382 (March 2003).

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	C24	Marcus et al., "EXOS Research on Master Controllers for Robotic Devices," Fifth Annual Workshop on Space Operations Applications and Research (SOAR '91) pp. 238-245, July 1991.	
	C25	Massie, "Design of a Three Degree of Freedom Force-Reflecting Haptic Interface", Massachusetts Institute of Technology; Bachelor of Science in Electrical Science and Engineering Thesis, May, 1993, pgs. 1-38.	
	C26	Massie, "Initial Haptic Explorations with the Phantom: Virtual Touch Through Point Interaction", Massachusetts Institute of Technology Master of Science Thesis, February, 1996, pgs. 1-49. (not admitted as prior art)	
	C27	McAffee et al., "Teleoperator Subsystem/Telerobot Demonstrator," Force Reflecting Hand Controller Equipment Manual, Jet Propulsion Laboratory, January 1988.	
	C28	Millman et al., "A System for the Implementation and Kinesthetic Display of Virtual Environments," Telemanipulator Technology, Proceedings of 1992 SPIE, Vol. 1833, pp. 49-56.	
	C29	Minsky et al., "Feeling and Seeing: Issues in Force Display," COMPUTER GRAPHICS, Vol. 24, No. 2, March 1990, pgs. 235-270.	
	C30	Minsky, "Computational Haptics: The Sandpaper System for Synthesizing Texture for a Force-Feedback Display," Massachusetts Institute of Technology Ph.D. Thesis, June, 1995, pgs. 1-217.	
	C31	Morgenbesser, "Force Shading for Shape Perception in Haptic Virtual Environments", Massachusetts Institute of Technology Master of Engineering Thesis, September, 1995, pgs. 1-77.	
	C32	Oboe, "Force-Reflecting Teleoperation Over the Internet: The JBIT Project," Proceedings of the IEEE, Vol. 91, No. 3, pp. 449-462 (March 2003).	
	C33	Photoshop, Lesson 4: Layers, webpage downloaded 9/12/03, http://iit.bloomu.edu/vthc/Photoshop/Basics/layers.htm	
	C34	Photoshop, Lesson 8: Brightness & Contrast, webpage downloaded 9/12/03, http://iit.bloomu.edu/vthc/Photoshop/enhancing/brightness&contrast.htm	
	C35	Photoshop, Lesson 9: Hue & Saturation, webpage downloaded 9/12/03, http://iit.bloomu.edu/vthc/Photoshop/enhancing/hue&saturation.htm	
	C36	Photoshop, Lesson 7: Color Balance, webpage downloaded 9/12/03, http://iit.bloomu.edu/vthc/Photoshop/enhancing/colorbalance.htm	
	C37	Photoshop, Lesson 12: Blur, Sharpen & Smudge, webpage downloaded 9/12/03, http://iit.bloomu.edu/vthc/Photoshop/enhancing/blurring.htm	
	C38	Photoshop, Lesson 14: Selection Tools, webpage downloaded 9/12/03, http://iit.bloomu.edu/vthc/Photoshop/blending/selectiontools.htm	
	C39	Photoshop, Lesson 18: Opacity, webpage downloaded 9/12/03, http://iit.bloomu.edu/vthc/Photoshop/SpecialEffects/opacity.htm	
	C40	Photoshop, Lesson 19: Color Selection, webpage downloaded 9/12/03, http://iit.bloomu.edu/vthc/Photoshop/drawing/colorpicker.htm	
	C41	Photoshop, Lesson 21: Paint Tools, webpage downloaded 9/12/03, http://iit.bloomu.edu/vthc/Photoshop/drawing/painttools.htm	
	C42	Photoshop, Lesson 22: Vector Shapes, webpage downloaded 9/12/03, http://iit.bloomu.edu/vthc/Photoshop/drawing/vectorshapes.htm	
	C43	Photoshop, Lesson 23: Gradients, webpage downloaded 9/12/03, http://iit.bloomu.edu/vthc/Photoshop/drawing/gradients.htm	
	C44	Photoshop Techniques 004: How to use Postscript Art as a Stencil in Photoshop, 1994, Swanson Tech Support	
✓	C45	Nagel, "A Closer Look: Photoshop's New Paint Engine," Creative Mac Features, March 7, 2002, http://www.creativemac.com/2002/03_mar/features/ps7dynamics12.htm	
JA	C46	3D Animation Workshop: Lesson 39: Softimage - NURBS Blending, webpage downloaded 7/29/03, http://www.webreference.com/3d/lesson39	

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	C47	Porter et al., "Compositing Digital Images", Computer Graphics, Volume 18, Number 3, July 1984, pgs. 253-259
	C48	Safaric et al., "Control of Robot Arm with Virtual Environment via the Internet," Proceedings of the IEEE, Vol. 91, No. 3, pp. 422-429 (March 2003).
	C49	Salisbury et al., "Haptic Rendering: Programming Touch Interaction with Virtual Objects," Presented and disseminated at the 1995 Symposium on Interactive 3D Graphics held April 9-12, 1995 in Monterey, CA, sponsored by the Association for Computing Machinery (ACM) and published by the ACM in Proceedings: 1995 Symposium on Interactive 3D Graphics, Monterey, California, April 9-12, 1995, pgs. 123-130.
	C50	Salisbury et al., "Haptic Rendering of Surfaces Defined by Implicit Functions," Proceedings of the ASME Dynamic Systems and Control Division, 1997 ASME International Mechanical Engineering Congress and Exposition, 1997.
	C51	SensAble Technologies, Inc., "Phantom Haptic Interface," 1996, Cambridge, MA (6 pgs).
	C52	Snow et al., "Compact Force-Reflecting Hand Controller," NASA Tech Brief, Vol. 15, No. 4 from Jet Propulsion Laboratory Report NPO-17851-7348, April 1991, pgs. i, 1-3, 1a-11a, 14a, 15a.
	C53	Swarup, "Haptic Interaction with Deformable Objects Using Real-Time Dynamic Simulation", Massachusetts Institute of Technology, September 1995, pgs. 1-83.
	C54	Tan et al., "Virtual Environments for Internet-Based Robots - I: Modeling a Dynamic Environment," Proceedings of the IEEE, Vol. 91, No. 3, pp. 383-388 (March 2003).
	C55	Tan et al., "Virtual Environments for Internet-Based Robots - II: Path Planning," Proceedings of the IEEE, Vol. 91, No. 3, pp. 389-395 (March 2003).
	C56	Terzopoulos et al.; "Elastically Deformable Models"; COMPUTER GRAPHICS, Vol. 21, No. 4, pgs. 205-214 (July, 1987).
	C57	Tyson, Howstuffworks, "How AGP Work", http://computer.howstuffworks.com/agp.htm/printable , printed 7/15/03
	C58	University of Michigan Virtual Reality Laboratory, "Revival of the Virtual Lathe," http://www-vrl.umich.edu/sel_prj/lathe/ , (December 20, 2002).
	C59	Yoshikawa et al., "Construction of Virtual World Using Dynamics Modules and Interaction Modules," Proceedings of the 1996 IEEE International Conference on Robotics and Automation (Minneapolis, MN), pp. 2358-2364 (April 1996).
	C60	Zilles et al., "A Constraint-Based God-object Method for Haptic Display," published by IEEE Computer Society Press, Los Alamitos, California, in Proceedings of the 1995 IEEE/RSJ International Conference on Intelligent Robots and Systems - Human Robot Interaction and Cooperative Robots, held August 5-9, 1995 in Pittsburgh, Pennsylvania, 1995, pgs. 146-151.
JA	C61	Zilles, "Haptic Rendering with the Toolhandle Haptic Interface," Massachusetts Institute of Technology Master of Science Thesis, May 1995, pgs. 1-46.

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Express Mail Mailing Label No. EV 689994871 US

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U.S. PATENT DOCUMENTS

EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
JA	A1	3,531,868	10/06/70	Stevenson	33	174	04/18/68
	A2	3,920,972	11/18/75	Corwin et al.	235	151.1	07/16/74
	A3	3,944,798	03/16/76	Eaton	235	161.3	04/18/74
	A4	4,521,685	06/04/85	Rebman	250	229	03/01/82
	A5	4,604,016	08/05/86	Joyce	414	7	08/03/83
	A6	4,632,341	12/30/86	Repperger et al.	244	230	02/06/85
	A7	4,638,798	01/27/87	Shelden et al.	128	303B	09/10/80
	A8	4,653,011	03/24/87	Iwano	364	513	03/27/85
	A9	4,654,648	03/31/87	Herrington et al.	340	710	12/17/84
	A10	4,655,673	04/07/87	Hawkes	414	730	05/10/83
	A11	4,661,032	04/28/87	Arai	414	5	12/18/85
	A12	4,670,851	06/02/87	Murakami et al.	364	518	10/22/84
	A13	4,680,519	07/14/87	Chand et al.	318	568	09/23/85
	A14	4,686,522	8/11/1987	Hernandez et al.			
	A15	4,703,443	10/27/87	Moriyasu	364	559	02/07/85
	A16	4,729,098	03/01/88	Cline et al.	364	414	06/05/85
	A17	4,769,763	09/06/88	Trieb et al.	364	559	06/16/86
	A18	4,791,934	12/20/88	Brunnett	128	653	08/07/86
	A19	4,819,195	04/04/89	Bell et al.	364	571.1	01/20/87
	A20	4,839,838	06/13/89	LaBiche et al.	364	709.1	03/30/87
	A21	4,853,874	08/01/89	Iwamoto et al.	364	513	11/20/87
	A22	4,907,973	03/13/90	Hon	434	262	11/14/88
	A23	4,942,538	07/17/90	Yuan et al.	364	513	02/23/89
	A24	4,945,305	07/31/90	Blood	324	207.2	04/11/89
	A25	4,945,501	07/31/90	Bell et al.	364	571.1	04/12/89
JA	A26	4,961,138	10/02/90	Gorniak	364	200	10/02/89

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	A27	4,973,111	11/1990	Haacke et al.	324	309	
	A28	4,982,504	01/08/91	Söderberg et al.	33	502	02/17/89
	A29	4,988,981	01/29/91	Zimmerman et al.	340	709	02/28/89
	A30	5,040,306	08/20/91	McMurtry et al.	33	556	02/20/89
	A31	5,053,975	10/01/91	Tsuchihashi et al.	364	513	06/08/89
	A32	5,072,361	12/10/91	Davis et al.	364	167	02/01/90
	A33	5,088,046	02/11/92	McMurtry	364	474	12/19/88
	A34	5,088,055	02/11/92	Oyama	364	560	02/22/90
	A35	5,105,367	04/14/92	Tsuchihashi et al.	395	99	10/16/89
	A36	5,131,844	07/21/92	Marinaccio et al.	433	72	04/08/91
	A37	5,185,561	02/09/93	Good et al.	318	432	07/23/91
	A38	5,189,806	03/02/93	McMurtry et al.	33	503	08/17/92
	A39	5,204,824	04/20/93	Fujimaki	364	474	08/23/90
	A40	5,237,647	08/17/93	Roberts, et al.	345	419	10/28/91
	A41	5,255,211	10/19/93	Redmond	364	578	02/22/90
	A42	5,333,257	07/26/94	Merrill, et al.	345	467	08/09/91
	A43	5,354,162	10/11/94	Burdea et al.	414	5	10/11/94
	A44	5,389,865	02/14/95	Jacobus et al.	318	568.1	12/02/92
	A45	5,396,265	03/07/95	Ulrich et al.	345	158	09/17/90
	A46	5,446,834	08/29/95	Deering	345	427	12/06/94
	A47	5,459,382	10/17/95	Jacobus et al.	318	568.1	06/09/94
	A48	5,482,051	01/09/96	Reddy et al.	128	733	04/06/94
	A49	5,497,452	03/05/96	Shimizu et al.	395	120	03/02/92
	A50	5,506,785	04/1996	Blank et al.	700	98	
	A51	5,515,078	05/07/96	Greschler et al.	345	156	
	A52	5,555,894	09/17/96	Doyama et al.	128	782	05/02/94
	A53	5,587,937	12/24/96	Massie et al.	364	578	04/25/95
V	A54	5,623,642	04/22/97	Katz et al.	395	500	04/06/94
JA	A55	5,625,576	04/29/97	Massie et al.	364	578	10/01/93

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	A56	5,629,594	05/13/97	Jacobus et al.	318	568.1	10/16/95
	A57	5,659,493	08/19/97	Kiridena, et al.	703	2	03/03/95
	A58	5,666,138	09/09/97	Culver	345	161	11/22/94
	A59	5,687,304	11/1997	Kiss	345	419	
	A60	5,691,898	11/25/97	Rosenberg et al.	364	190	03/28/96
	A61	5,694,013	12/02/97	Stewart et al.	318	561	09/06/96
	A62	5,721,566	02/24/98	Rosenberg et al.	345	161	06/09/95
	A63	5,724,264	03/03/98	Rosenberg et al.	364	559	08/07/95
	A64	5,731,804	03/24/98	Rosenberg	345	156	01/18/95
	A65	5,734,373	03/31/98	Rosenberg et al.	345	161	12/01/95
	A66	5,737,505	04/07/98	Shaw et al.	395	119	10/15/96
	A67	5,739,811	04/14/98	Rosenberg et al.	345	161	09/27/95
	A68	5,751,289	05/12/98	Myers	345	419	01/16/96
	A69	5,769,640	06/23/98	Jacobus et al.	434	262	08/10/95
	A70	5,774,130	06/30/98	Horikawa, et al.	345	441	08/31/95
	A71	5,784,542	07/21/98	Ohm et al.	395	95	10/23/96
	A72	5,790,108	08/04/98	Salcudean et al.	345	184	10/23/92
	A73	5,798,752	08/25/98	Buxton et al.	345	146	02/27/95
	A74	5,800,177	09/01/98	Gillio	434	262	07/11/96
	A75	5,800,178	09/01/98	Gillio	434	262	07/11/96
	A76	5,800,179	09/01/98	Bailey	434	262	07/23/96
	A77	5,802,353	09/01/98	Avila et al.	395	500	06/12/96
	A78	5,803,738	09/08/98	Latham	434	29	08/05/96
	A79	5,805,140	09/08/98	Rosenberg et al.	345	161	11/17/95
	A80	5,821,920	10/13/98	Rosenberg et al.	345	156	03/28/97
	A81	5,825,308	10/20/98	Rosenberg	341	20	11/26/96
	A82	5,828,197	10/27/98	Martin, et al.	318	567	10/25/96
✓	A83	5,831,408	11/03/98	Jacobus, et al.	318	568.1	05/12/97
JA	A84	5,844,392	12/01/98	Peurach et al.	318	568.2	05/21/97

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	A85	5,847,956	12/08/98	Bronfeld, et al.	700	98	09/26/96
	A86	5,859,934	01/12/99	Green	382	296	01/14/97
	A87	5,872,438	02/16/99	Roston	318	568.11	07/01/97
	A88	5,873,106	02/16/99	Joseph	715	506	09/18/95
	A89	5,881,178	03/1999	Tsykalov et al.	382	260	
	A90	5,882,206	06/16/99	Gillio	434	262	03/29/95
	A91	5,889,670	03/30/99	Schuler et al.	364	186	01/11/96
	A92	5,898,599	04/27/99	Massie, et al.	345	161	12/23/96
	A93	5,903,456	05/11/99	Schena et al.	364	190	01/27/97
	A94	5,907,487	05/25/99	Rosenberg et al.	364	190	04/02/97
	A95	5,913,727	06/22/99	Ahdoot	463	39	06/13/97
	A96	5,956,484	09/21/99	Rosenberg et al.	395	200.3	08/01/96
	A97	5,963,212	10/05/99	Bakalash	345	424	06/11/97
	A98	5,973,678	10/26/99	Stewart et al.	345	184	08/29/97
	A99	5,988,862	11/23/99	Kacyra, et al.	703	6	04/24/96
	A100	6,040,840	03/2000	Koshiba et al.	345	441	
	A101	6,061,004	05/2000	Rosenberg	341	20	
	A102	6,084,587	07/04/00	Tarr et al.	345	419	02/08/96
	A103	6,111,577	08/29/00	Zilles, et al.	345	701	04/04/96
	A104	6,131,097	10/10/00	Peurach et al.			
	A105	6,191,796 B1	02/20/01	Tarr	345	433	01/21/98
	A106	6,211,848	04/03/01	Plesniak, et al.	345	156	02/09/99
	A107	6,219,032	04/2001	Rosenberg et al.	345	157	
	A108	6,226,003	05/01/01	Akeley	345	419	08/11/98
	A109	6,308,144	10/23/01	Bronfeld, et al.	703	2	09/26/96
	A110	6,337,678 B1	01/20/02	Fish	345	156	07/21/99
	A111	6,342,880 B2	01/20/02	Rosenberg et al.	345	161	10/06/99
V	A112	6,369,834	04/09/02	Zilles, et al.	345	701	06/02/99
JA	A113	6,405,158	06/11/02	Massie, et al.	703	6	03/12/99

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	A114	6,417,638	07/09/02	Guy, et al.	318	560	07/16/99	
	A115	6,421,048	07/16/02	Shih, et al.	345	419	06/28/99	
	A116	6,552,722	04/22/03	Shih, et al.	345	19	07/06/99	
	A117	6,608,631	08/19/03	Milliron	345	647	05/02/00	
	A118	6,671,651	12/30/03	Goodwin, et al.	702	152	04/26/02	
	A119	6,707,458	03/2004	Leather et al.	345	582		
	A120	6,792,398	09/14/04	Handley, et al.	703	2	07/14/99	
	A121	6,831,640	12/14/04	Shih, et al.	345	419	02/26/03	
	A122	6,853,965	02/08/05	Massie, et al.	703	6	11/16/01	
	A123	6,867,770	03/15/05	Payne	345	643	12/14/01	
	A124	6,879,315	04/12/05	Guy, et al.	345	156	05/13/02	
	A125	20020089500	07/11/02	Jennings, et al.	345	420	12/14/01	
	A126	2002/0154132	10/2002	Dumesny et al.	345	582		
	A127	2003/0048277	3/2003	Maillot et al.	345	582		
	A128	2003/0191554	10/09/03	Russell et al.				
	A129	2003/0234781	12/2003	Laidlaw et al.	345	419		
	A130	2004/0233196	11/2004	Hertzmann	345	441		
	A131	20050001831	01/06/05	Shih, et al.	345	419	05/12/04	
	A132	2005/0060130	03/2005	Shapiro et al.	703	002		
	A133	20050062738	03/24/05	Handley, et al.	345	419	07/27/04	
	A134	20050093821	05/05/05	Massie, et al.	345	161	10/30/03	
	A135	20050128210	06/16/05	Berger	345	582	12/10/03	
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EXAM INIT.	DOCUMENT NUMBER	DATE	COUNTRY CODE	CLASS	SUB CLASS	FILING DATE	ABSTRACT ONLY	ENGLISH LANG (Y/N)
JA	B1	WO 95/02801	01/26/95	PCT	G01B	7/03	07/12/94	N

EXAMINER

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DATE CONSIDERED

11/11/2006

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	B2	WO 96/16397	05/30/96	PCT	G09G	5/08	11/22/95	N	Y
	B3	WO 96/22591	07/25/96	PCT	G09G	5/00	01/17/96	N	Y
	B4	WO 96/42078	12/27/96	PCT	G09G	3/02	06/07/96	N	Y
	B5	WO 97/06410	02/20/97	PCT	G01C	7/00	07/29/96	N	Y
	B6	WO 97/12337	04/03/97	PCT	G06F	19/00	09/25/96	N	Y
	B7	WO 97/12357	04/03/97	PCT	G09G	5/00	09/25/96	N	Y
	B8	WO 97/19440	05/29/97	PCT	G09G	5/00	11/05/96	N	Y
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	B10	WO 97/44775	11/27/97	PCT	G09G G06G B25J G05B G06F G06G A03B	5/08 3/00 9/18 19/19 19/408 17/00 7/48 71/00 24/00	05/16/97	N	Y
	B11	WO 98/06024	02/12/98	PCT	G06F	3/00 15/16 17/30	07/31/97	N	Y
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/Jwalant Amin/

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